

St. Joseph County Department of Health

"Promoting physical and mental health and facilitating the prevention of disease, injury, and disability for all St. Joseph County residents"

FLOOD DOSE WORKSHEET

This worksheet must be accurately completed and submitted with the site plan which demonstrates all aspects of the trench system.

SYSTEM SPECIFICATIONS: See Department of Health specification sheet for information
Soil Load Rate ft ² Required gallons per minute
Daily Design Flow (DDF): gallons = number of bedrooms/equivalents x 150, or 450 (whichever is greater)
SEPTIC TANK: New: Existing: Size: gallons Manufacturer:
DOSE TANK: New: Existing: Size:gallons Manufacturer:
Internal dimensions: Width:inches, Length:inches,gallons per inches or for for for for circle one)
ABSORPTION FIELD: (check one)Aggregate/pipeChambersOther:
Lateral separation: feet on-center. Minimum trench depth: " Maximum trench depth:
Chambers: Manufacturer: feet.
Total number of chambers: Number of Chambers per run or trench:
Trenches: Number: Length: feet. Width: feet. Total square footage:
Bed: Length:feet, Width:feet, Total absorptive area:square feet.
Additional/Misc. info:
DISTRIBUTION NETWORK:
Only pressure rated pipe, fittings (couplers, reducers, elbows, tee's, etc.) will be usedYesNo
Effluent force main: Length**:feet. Diameter:inches. Volume*:(length X volume/foot)
* If line drains to the dose tank, this is drain-back amount to be added to the
actual dose to determine float settings. Gallons/foot: .045 .078 .106 .174 .384 .650
**Is any portion of the force main deeper than than 60":yesno.
If yes, what length will NOT drain:feet. (Subtract this amount from the total length before calculating drain-back volume
Effluent force main drains to: D-box: Total dose is DDF Total dose: gallons
Dose tank: Total dose is DDF + Drain-back Total dose: gallons

Drawdown distance:								
Pump on/off distance: <u>in</u>	ch or feet (x)	gallons per <u>in</u>	<u>ch</u> or <u>fo</u>	<u>ot</u> =			se amou	
Friction loss in effluent force n	nain: *Sec. 76 (h) Ta	ble IX of Rule 410) IAC 6-8	3.3.			C	
Friction loss atgpm =	*feet p	er 100 ft. of	i	inch diameter				
Calculate friction loss from fittir List each fitting by type and corn Example (for 2"): 2-90° elbows at Add up total equivalent length for FITTINGS List:	*Pipe diameter: 90° Elbow: 45° Elbow: Check valve: o get "Friction lo	2.6' 1.4' 8.7'	4.3° 2.1° 13.4°	5.2' 2.8' 17.2'		7.7' 4.1' 25.5'	4" 10.1' 5.4' 33.6'	
Length force main (+) F	_	_						
PUMP: Manufacturer:	rer: Model			Horse power:				
Performance curve included with TDH and gpm plotted:					Yes _		No	
Pump is adequate, but not oversized:				Y	es _		No	
Dosing Tank will be set up in compliance with Sec. 64 and Sec. 65 of the State Rule:				Y	es _		No	
Junction box(es) will be located outside the dosing tank <u>and</u> riser, and shall be in accordance with Sec. 65 of the State Rule:				Y	es _		No	
All Septic Tanks and Dosing Tanks will have risers in accordance with Sec. 61-64 of the State Rule:				Y	es _		No	
Each Dose Tank will be equipped with an audible and visual alarm on a separate circuit from the pump:				Y	es _		No	
Pump will stay submerged at all			Y	es _		No		
TOTAL DYNAMIC HEAD:								
A. Total Friction Loss in Deliver	ry Line =		feet					
B. Elevation Difference (Pump-c (Or highest elevation in for	,		feet					
C. System Design Head =		0	feet					
Total Dynamic Head = $(A + B + C)$			feet					